

Patent Claims

1. Method for controlling the handover of telecommunication connections in telecommunication systems with wireless telecommunication between mobile and/or stationary transmission/reception devices based on code-division and time-division multiplex, whereby

(a) carrier frequencies (FR1...FR12) predetermined for the telecommunication system are respectively divided such into a plurality of time slots (ZS'1...ZS'8) having a respectively predetermined time slot duration (T_{zs}) that the telecommunication system can be operated in the TDD mode, whereby the time slots (ZS'1...ZS'8) per carrier frequency (FR1...FR2) respectively form a time-division multiplex frame (ZMR);

(b) at most a predetermined plurality of bidirectional telecommunication connections in upstream and downstream direction between the telecommunication subscribers of the mobile transmission/reception devices (MS1...MS5) and/or stationary transmission/reception devices (BTS1, BTS2) of the telecommunication can be simultaneously set up in the time slots (ZS'1...ZS'8) or, respectively, the frequency ranges of the telecommunication system, whereby subscriber signals thereby transmitted are operated for separability with pseudo-random signals (C1...C8), what are referred to as the codes, individually allocated to the subscribers;

(c) whereby a handover time slot pair is identified by a stationary transmission/reception device (BS) during a first phase of a handover procedure, the handover indication, characterized in that

(d) during a second phase of the handover procedure, the handover initiation,

(d1) the stationary transmission/reception device (BS) sends a first message "Handover Request" (M1) to mobile transmission/reception devices (MT1...MTn) allocated to the stationary transmission reception device (BS) with which the stationary transmission/reception device (BS) informs the mobile transmission/reception devices (MT1...MTn) of the handover time slot;

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(d)

confirmed by a second message (M2).

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time slot (ZS'5) in upstream direction.

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spacing (AS2...AS5) between the downlink time slot (ZS'_{DOWN}) and the uplink time slot (ZS'_{UP}) that are allocated to the same carrier frequency (FR1...FR12) or different carrier frequencies (FR1...FR12) is a fraction of the length of a time-division multiplex frame (ZMR), whereby the spacing (AS2...AS5) is fixed or variable.

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